



# ATLIC Disposal Process

## DESERET CHEMICAL DEPOT | *End of Operations Ceremony*



The Area 10 Liquid Incinerator (ATLIC) was specifically designed to destroy DCD's small stockpile of GA nerve and lewisite (L) blister agents—the only such stockpile in the United States. Located in Deseret Chemical Depot's storage area, also referred to Area 10, the facility was similar in design to the liquid incinerators at the Tooele Chemical Agent Disposal Facility (TOCDF).

The ATLIC began operations on Oct. 31, 2011, and ran parallel with the TOCDF as both facilities worked to destroy DCD's remaining stockpile of chemical weapons. ATLIC operations successfully concluded on Jan. 21, 2012—marking the end of chemical agent operations at DCD.

1



The ton containers of GA and L were safely transported from the storage igloos to the ATLIC.

2



Using a rolling cart, workers transferred the containers into one of two specially designed gloveboxes, which are then sealed.

3



Protected by gloves secured to the glovebox, workers safely drained the agent from the containers.

4a

*GA was sent directly to the LIC*



GA nerve agent was sent directly to the Liquid Incinerator (LIC), which thermally destroyed the agent at approximately 2600 degrees Fahrenheit.

4b

*L agent was sent to holding tank prior to the LIC*



Because L is known to contain heavy metals, the drained L agent was first sent to a holding tank where it was properly sampled prior to processing in the LIC.

5



Once emptied, a decon solution (a sodium hydroxide solution was used for GA and nitric acid for L) was used to decontaminate the interior of each bulk container. Once adequately cleaned, the containers went through a water rinse process.

6



The final rinse was sampled and monitored to ensure the containers met the decontamination standards set by the facility's hazardous waste permit.

7



The containers were then sent to the TOCDF for thermal treatment in the Metal Parts Furnace. The decontaminated metal is ultimately sent to a permitted, off-site treatment facility for final disposition.